

HIGH FREQUENCY SWITCHING COMPONENT

ABSTRACT OF THE DISCLOSURE

A high frequency switching component for being connected to a transmission circuit, a reception circuit, and an antenna to be used for switching to either a state in which the transmission circuit is connected to the antenna, or a state in which the reception circuit is connected to the antenna, comprising: a multilayer circuit board, on which there is formed a circuit including: a transmission circuit terminal to be connected to the transmission circuit; a reception circuit terminal to be connected to the reception circuit; an antenna terminal to be connected to the antenna; a ground terminal; a first diode whose anode is connected to the transmission circuit terminal and the cathode thereof is connected to the antenna terminal; a second diode whose anode is connected to the reception circuit terminal and the cathode thereof is connected to the ground terminal; a signal line for connecting the transmission circuit terminal, the reception circuit terminal, and the antenna terminal via the first diode; and an inductor or an LC filter disposed between the signal line and the ground terminal to reduce noise on the signal line; in which the transmission circuit terminal, the reception circuit terminal, the antenna terminal, the ground terminal, the first diode, and the second diode are disposed on a surface of the multilayer circuit board; at least a part of the signal line being disposed inside the multilayer circuit board; and the inductor being disposed either inside or on the surface of the multilayer circuit board.